

**APPENDIX A**  
**ACRONYMS AND ABBREVIATIONS**

AAH	Analyzer alarm high
AAHH	Analyzer alarm high-high
AASS	Automatic Agent Sampling System
ACAMS	Automatic Continuous Air Monitoring System
acfm	Actual cubic feet per minute
ACS	Agent Collection System
Ag	Silver
AIC	Analyzer indicator control
AL	Airlock
ALM	Alarm
AMC	U. S. Army Material Command
API	American Petroleum Institute
AQS	Agent Quantification System
AR	Department of Army Regulations
As	Arsenic
ASTM	American Society for Testing and Materials
AUX	Auxiliary
Ba	Barium
BAT	Best Available Technology
BCS	Bulk Chemical Storage
BDS	Bulk Drain Station
Bldg	Building
BRA	Brine Reduction Area
BSA	Buffer Storage Area
BST	Brine Surge Tank
BTM	Bottom
Btu	British thermal unit
°C	Centigrade
CA	Combustion air
CAL	Chemical Assessment Laboratory
CAMDS	Chemical Agent Munition Disposal System (located at Deseret Chemical Depot)
CCL	Chemical Control Limit
CCl <sub>4</sub>	Carbon tetrachloride
CCTV	Closed-circuit television
Cd	Cadmium
CDC	Centers for Disease Control
CDS	Central Decontamination Supply
CDTF	Chemical Demilitarization Training Facility
CEMS	Continuous Emissions Monitoring System

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CH <sub>4</sub>	Methane
CHB	Container Handling Building
CMA	Chemical Materials Agency
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
CON	Control Room
Cr	Chromium
CRO	Control Room Operator
CSS	Conditioning Settling System
CTC	Cutaway Ton Container
DAAMS	Depot Area Air Monitoring System
DC	Direct current
DCD	Deseret Chemical Depot
DDYR	Drum Dryer
Decon	Decontamination
DFS	Deactivation Furnace System
DHHS	U.S. Department of Health and Human Services
DIC	Density indicator control
DPE	Demilitarization Protective Ensemble (suits)
DRE	Destruction and Removal Efficiency
DSA	DPE Support Area
DSHW	Division of Solid and Hazardous Waste
ECR	Explosive Containment Room
ECV	Explosive Containment Room Vestibule
EP	Emergency Power
EPA	U. S. Environmental Protection Agency
EVAP	Evaporators
°F	Degree Fahrenheit
FA	Fire alarm
FAH	Flow alarm high
FIC	Flow indicator control
FIT	Flow Indicating Transmitter
FR	Federal Register
ft	Feet
g	Gram
gal	Gallon
GB	Sarin, Isopropyl methylphosphonofluoridate
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GFE	Government Furnished Equipment
gm/cc	Grams per cubic centimeter

gpm	Gallons per minute
H	Levinstein mustard, bis (2-chloroethyl) sulfide
H	High
H <sub>2</sub>	Hydrogen
H <sub>2</sub> O	Water
H <sub>3</sub> PO <sub>4</sub>	Phosphoric Acid
HCl	Hydrochloric Acid
HD	Distilled mustard, bis (2-chloroethyl) sulfide
HDC	Heated Discharge Conveyor
HEPA	High efficiency particulate air
HF	Hydrogen fluoride
Hg	Mercury
HHS	Health and Human Services
HSWA	Hazardous and Solid Waste Amendments of 1984
HT	Mustard, 60% HD and 40% T
<u>HTS</u>	<u>Heel Transfer System</u>
HVAC	Heating, Ventilation, and Air Conditioning
HWMU	Hazardous Waste Management Unit
ICU	Intermittent Collection Units
ID	Identification
in.	Inch, inches
JACADS	Johnston Atoll Chemical Agent Disposal System
kg	Kilogram
L	Liter
LAH	Level alarm high
LAHH	Level alarm high-high
LAL	Level alarm low
LALL	Level alarm low-low
lb(s)	Pound(s)
lbm/hr	Pound mass per hour
LC Lo	Lowest published lethal concentration
LCt <sub>50</sub>	Lethal concentration - time product that produces 50 percent deaths among exposed, unprotected, and untreated personnel
LD <sub>50</sub>	Lethal dosage (50 percent death rate)
LIC	Liquid Incinerator
LIT	Level Indicating Transmitter
LOP	Lab Operating Procedure
LPG	Liquefied petroleum gas
LSHH	Level switch high-high
LSS	Life Support Systems
m/s	Meters per second
MCC	Mine Component Container
MDB	Munitions Demilitarization Building

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MDM	Multipurpose Demilitarization Machine
MED	Medical facility
mg	milligrams
MIL-STD	Military standards
MIN	Mine Machine
mL	Milliliter
mm	Millimeter
MON	Monitor
MOVP	Maximum Organic Vapor Pressure
MPB	Munitions Processing Bay
MPF	Metal Parts Furnace
MS	Mass spectrometer, mass spectrometry
MSB	Monitor Support Building
MUN	Munitions
mV	Millivolt
mol wt	Molecular weight
N <sub>2</sub>	Nitrogen
N/A	Not applicable
NaOCl	Sodium hypochlorite
NaOH	Sodium hydroxide
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NO	Nitrogen oxide
NO <sub>2</sub>	Nitrogen dioxide
NO <sub>x</sub>	Nitrogen oxides
NSPS	New Source Performance Standards
O <sub>2</sub>	Oxygen
OSHA	Occupational Safety and Health Administration
OVT	Operational Verification Testing
oz	Ounce
PAHH	Pressure alarm high-high
PAL	Pressure alarm low
PAS	Pollution Abatement System
Pb	Lead
PCB	Polychlorinated biphenyl compounds
PDARS	Process Data Acquisition and Recording System
PDIC	Pressure differential indicator control
PEP	Propellant, Explosives and Pyrotechnics
PIC	Pressure indicator control, Product of Incomplete Combustion
P&ID	Piping and Instrumentation Diagram
PIT	Pressure Indicating Transmitter
PLC	Programmable Logic Controller
PMD	Projectile/Mortar Disassembly Machine

POHC	Principal organic hazardous constituent
ppb	Parts per billion
ppm	Parts per million
ppmv	Parts per million by volume
psi	Pounds per square inch
psia	Pounds per square inch absolute
psig	Pounds per square inch gauge
PSL	Power switch low
QA	Quality assurance
QC	Quality control
R315	Utah Administrative Code R315
RCRA	Resource Conservation and Recovery Act
<u>RDS</u>	<u>Rinse and Drain Station</u>
RDX	Cyclotrimethylenetrinitramine
RHA	Residue Handling Area
rpm	Revolutions per minute
RSM	Rocket Shear Machine
RTM	Real Time Monitor
SARA	Superfund Amendments and Reauthorization Act of 1986
scfh	Standard cubic feet per hour
SCFM	Standard cubic feet per minute
SDS	Spent Decontamination Solution, Spent Decontamination System
Se	Selenium
SOPs	Standard Operating Procedures
Spent Decon	Spent decontamination solution
SPORT	Single Pallet Only Rocket Transporter
SPS	Secondary power distribution system
SRC	Single Round Container
STD	Standard
SWMU	Solid Waste Management Unit
T	Bis[2(2-chloroethylthio)ethyl]ether
TAH	Temperature alarm high
TAHH	Temperature alarm high-high
TAL	Temperature alarm low
TALL	Temperature alarm low-low
TAP	Toxicological Agent Protective
TCLP	Toxic Characteristic Leaching Procedure
TDS	Total dissolved solids
TEAD	Tooele Army Depot, Tooele
TIC	Temperature indicator control
TLV-TWA	Threshold Limit Value-Time Weighted Average
TMA	Toxic Maintenance Area
TNT	Trinitrotoluene

TOC	Total organic carbon
TOCDF	Tooele Chemical Agent Disposal Facility
TOX	Toxic Cubicle
TSCA	Toxic Substance Control Act
TSDF	Treatment, Storage, and Disposal Facility
TSHH	Temperature Switch High-High
TWA	Time Weighted Average
UPA	Unpack Area
UPMC	Upper Munitions Corridor
UPS	Uninterruptible Power Supply
VOC	Volatile Organic Concentration
VOST	Volatile organic sampling train
VX	O-ethyl-S(2-diisopropylaminoethyl) methyl phosphonothiolate
VXH	VX Hydrolysate, the liquid residue from a treatability study performed at CAMDS where water was added to 12 individual VX ton containers at approximately 10% by weight
w.c.	Water column
wt. %	Weight percent
XXX	Surface decontamination
XXXXX	Thermal treatment at 1000°F for a minimum of 15 minutes